

# Chul-Seung Park

## List of Publications by Year in descending order

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95  
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3,050  
citations

186265

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175258

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95  
all docs

95  
docs citations

95  
times ranked

3593  
citing authors

#	ARTICLE	IF	CITATIONS
1	A TRPV family ion channel required for hearing in <i>Drosophila</i> . <i>Nature</i> , 2003, 424, 81-84.	27.8	371
2	Interaction of charybdotoxin with permeant ions inside the pore of a K <sup>+</sup> channel. <i>Neuron</i> , 1992, 9, 307-313.	8.1	183
3	Artificial Ion Channel Formed by Cucurbit[n]uril Derivatives with a Carbonyl Group Fringed Portal Reminiscent of the Selectivity Filter of K <sup>+</sup> Channels. <i>Journal of the American Chemical Society</i> , 2004, 126, 15944-15945.	13.7	169
4	Glutamine Triggers Acetylation-Dependent Degradation of Glutamine Synthetase via the Thalidomide Receptor Cereblon. <i>Molecular Cell</i> , 2016, 61, 809-820.	9.7	132
5	Melastatin-Type Transient Receptor Potential Channel 7 Is Required for Intestinal Pacemaking Activity. <i>Gastroenterology</i> , 2005, 129, 1504-1517.	1.3	129
6	Calreticulin, a Calcium-binding Molecular Chaperone, Is Required for Stress Response and Fertility in <i>Caenorhabditis elegans</i> . <i>Molecular Biology of the Cell</i> , 2001, 12, 2835-2845.	2.1	122
7	Identification and functional characterization of cereblon as a binding protein for large-conductance calcium-activated potassium channel in rat brain. <i>Journal of Neurochemistry</i> , 2005, 94, 1212-1224.	3.9	120
8	Calreticulin Couples Calcium Release and Calcium Influx in Integrin-mediated Calcium Signaling. <i>Molecular Biology of the Cell</i> , 2000, 11, 1433-1443.	2.1	111
9	Functional modulation of AMP-activated protein kinase by cereblon. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2011, 1813, 448-455.	4.1	81
10	T cell microvilli constitute immunological synaptosomes that carry messages to antigen-presenting cells. <i>Nature Communications</i> , 2018, 9, 3630.	12.8	81
11	Functional characteristics of two BKCa channel variants differentially expressed in rat brain tissues. <i>FEBS Journal</i> , 2000, 267, 910-918.	0.2	70
12	Functional Effects of Auxiliary $\beta$ 4-Subunit on Rat Large-Conductance Ca <sup>2+</sup> -Activated K <sup>+</sup> Channel. <i>Biophysical Journal</i> , 2004, 86, 2871-2882.	0.5	66
13	Disruption of the Cereblon Gene Enhances Hepatic AMPK Activity and Prevents High-Fat Diet-Induced Obesity and Insulin Resistance in Mice. <i>Diabetes</i> , 2013, 62, 1855-1864.	0.6	64
14	A highly efficient synthesis of unnatural l-sugars from d-ribose. <i>Tetrahedron Letters</i> , 2005, 46, 5903-5905.	1.4	55
15	A new putative cyclic nucleotide-gated channel gene, <i>cng-3</i> , is critical for thermotolerance in <i>Caenorhabditis elegans</i> . <i>Biochemical and Biophysical Research Communications</i> , 2004, 325, 525-531.	2.1	53
16	Divalent Cation Selectivity in a Cyclic Nucleotide-Gated Ion Channel. <i>Biochemistry</i> , 1995, 34, 13328-13333.	2.5	52
17	Cereblon negatively regulates TLR4 signaling through the attenuation of ubiquitination of TRAF6. <i>Cell Death and Disease</i> , 2016, 7, e2313-e2313.	6.3	49
18	Inwardly Rectifying Current-Voltage Relationship of Small-Conductance Ca <sup>2+</sup> -Activated K <sup>+</sup> Channels Rendered by Intracellular Divalent Cation Blockade. <i>Biophysical Journal</i> , 2001, 80, 2207-2215.	0.5	46

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19	A novel activation of Ca <sup>2+</sup> -activated Cl <sup>-</sup> channel in <i>Xenopus</i> oocytes by Ginseng saponins: evidence for the involvement of phospholipase C and intracellular Ca <sup>2+</sup> mobilization. <i>British Journal of Pharmacology</i> , 2001, 132, 641-648.	5.4	46
20	Cereblon in health and disease. <i>Pflugers Archiv European Journal of Physiology</i> , 2016, 468, 1299-1309.	2.8	43
21	Two isoforms of sarco/endoplasmic reticulum calcium ATPase (SERCA) are essential in <i>Caenorhabditis elegans</i> . <i>Gene</i> , 2000, 261, 211-219.	2.2	41
22	Localization of Divalent Cation-Binding Site in the Pore of a Small Conductance Ca <sup>2+</sup> -Activated K <sup>+</sup> Channel and Its Role in Determining Current-Voltage Relationship. <i>Biophysical Journal</i> , 2002, 83, 2528-2538.	0.5	39
23	Cereblon Maintains Synaptic and Cognitive Function by Regulating BK Channel. <i>Journal of Neuroscience</i> , 2018, 38, 3571-3583.	3.6	37
24	Benzofuroindole Analogues as Potent BK <sub>Ca</sub> Channel Openers. <i>ChemBioChem</i> , 2005, 6, 1745-1748.	2.6	35
25	Hydrophobic Interface between Two Regulators of K <sup>+</sup> Conductance Domains Critical for Calcium-dependent Activation of Large Conductance Ca <sup>2+</sup> -activated K <sup>+</sup> Channels. <i>Journal of Biological Chemistry</i> , 2006, 281, 38573-38581.	3.4	35
26	Epigenetic regulation of <i>Kcna3</i> -encoding Kv1.3 potassium channel by cereblon contributes to regulation of CD4 <sup>+</sup> T-cell activation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 8771-8776.	7.1	35
27	Identification of ginsenoside interaction sites in 5-HT <sub>3A</sub> receptors. <i>Neuropharmacology</i> , 2007, 52, 1139-1150.	4.1	34
28	Structure-Activity Relationship Studies of Spinorphin as a Potent and Selective Human P2X <sub>3</sub> Receptor Antagonist. <i>Journal of Medicinal Chemistry</i> , 2007, 50, 4543-4547.	6.4	31
29	Induction of SIRT1 by melatonin improves alcohol-mediated oxidative liver injury by disrupting the CRBN-YY1-CYP2E1 signaling pathway. <i>Journal of Pineal Research</i> , 2020, 68, e12638.	7.4	29
30	Discovery of Potent Antiallodynic Agents for Neuropathic Pain Targeting P2X <sub>3</sub> Receptors. <i>ACS Chemical Neuroscience</i> , 2017, 8, 1465-1478.	3.5	24
31	Effects of mutation at a conserved N-glycosylation site in the bovine retinal cyclic nucleotide-gated ion channel. <i>FEBS Letters</i> , 2000, 478, 246-252.	2.8	23
32	Functional Effects of a Pathogenic Mutation in Cereblon (CRBN) on the Regulation of Protein Synthesis via the AMPK-mTOR Cascade. <i>Journal of Biological Chemistry</i> , 2014, 289, 23343-23352.	3.4	23
33	Crystal Structure of the GluR0 Ligand-Binding Core from <i>Nostoc punctiforme</i> in Complex with L-Glutamate: Structural Dissection of the Ligand Interaction and Subunit Interface. <i>Journal of Molecular Biology</i> , 2008, 376, 308-316.	4.2	21
34	Cereblon inhibits proteasome activity by binding to the 20S core proteasome subunit beta type 4. <i>Biochemical and Biophysical Research Communications</i> , 2012, 427, 618-622.	2.1	21
35	The Anoctamin Family Channel Subdued Mediates Thermal Nociception in <i>Drosophila</i> . <i>Journal of Biological Chemistry</i> , 2015, 290, 2521-2528.	3.4	21
36	Modulation of the Conductance-Voltage Relationship of the BK <sub>Ca</sub> Channel by Mutations at the Putative Flexible Interface between Two RCK Domains. <i>Biophysical Journal</i> , 2008, 94, 446-456.	0.5	20

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37	Regulation of dendritic spine morphology by SPIN90, a novel Shank binding partner. <i>Journal of Neurochemistry</i> , 2009, 109, 1106-1117.	3.9	20
38	Electrophysiological Characterization of Benzofuroindole-Induced Potentiation of Large-Conductance Ca <sup>2+</sup> -Activated K <sup>+</sup> Channels. <i>Molecular Pharmacology</i> , 2006, 69, 1007-1014.	2.3	19
39	Regulation of basal autophagy by transient receptor potential melastatin 7 (TRPM7) channel. <i>Biochemical and Biophysical Research Communications</i> , 2015, 463, 7-12.	2.1	19
40	Inhibition of cereblon by fenofibrate ameliorates alcoholic liver disease by enhancing AMPK. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2015, 1852, 2662-2670.	3.8	18
41	Crbn modulates calcium influx by regulating Orai1 during efferocytosis. <i>Nature Communications</i> , 2020, 11, 5489.	12.8	18
42	Myelin basic protein as a binding partner and calmodulin adaptor for the BK <sub>Ca</sub> channel. <i>Proteomics</i> , 2007, 7, 2591-2602.	2.2	17
43	Bladder-Relaxant Properties of the Novel Benzofuroindole Analogue LDD175. <i>Pharmacology</i> , 2009, 83, 367-378.	2.2	17
44	Identification and Functional Characterization of Ankyrin-Repeat Family Protein ANKRA as a Protein Interacting with BKCaChannel. <i>Molecular Biology of the Cell</i> , 2005, 16, 1013-1025.	2.1	16
45	Ubiquitin-dependent proteasomal degradation of AMPK gamma subunit by Cereblon inhibits AMPK activity. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2020, 1867, 118729.	4.1	16
46	Ginsenosides regulate ligand-gated ion channels from the outside. <i>Molecules and Cells</i> , 2004, 18, 115-21.	2.6	16
47	Sodium Permeability of a Cloned Small-Conductance Calcium-Activated Potassium Channel. <i>Biophysical Journal</i> , 2005, 89, 3111-3119.	0.5	15
48	Potentiation of large-conductance calcium-activated potassium (BKCa) channels by a specific isoform of protein kinase C. <i>Biochemical and Biophysical Research Communications</i> , 2008, 365, 459-465.	2.1	15
49	Movements of Individual BKCa Channels in Live Cell Membrane Monitored by Site-Specific Labeling Using Quantum Dots. <i>Biophysical Journal</i> , 2010, 99, 2853-2862.	0.5	15
50	Design and synthesis of potent and selective P2X3 receptor antagonists derived from PPADS as potential pain modulators. <i>European Journal of Medicinal Chemistry</i> , 2013, 70, 811-830.	5.5	15
51	Identification and characterization of a putative <i>C. elegans</i> potassium channel gene (Ce-slo-2) distantly related to Ca <sup>2+</sup> -activated K <sup>+</sup> channels. <i>Gene</i> , 1999, 240, 35-43.	2.2	14
52	Inhibition of intestinal motility by the putative BKCa channel opener LDD175. <i>Archives of Pharmacal Research</i> , 2009, 32, 413-420.	6.3	14
53	Crystal structure of the leucine zipper domain of small-conductance Ca <sup>2+</sup> -activated K <sup>+</sup> (SK <sub>Ca</sub> ) channel from <i>Rattus norvegicus</i> . <i>Proteins: Structure, Function and Bioinformatics</i> , 2008, 70, 568-571.	2.6	13
54	Induction of cereblon by NF-E2-related factor 2 in neuroblastoma cells exposed to hypoxia-reoxygenation. <i>Biochemical and Biophysical Research Communications</i> , 2010, 399, 711-715.	2.1	13

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55	Ablation of cereblon attenuates myocardial ischemia-reperfusion injury. <i>Biochemical and Biophysical Research Communications</i> , 2014, 447, 649-654.	2.1	13
56	Putative Cell Adhesion Membrane Protein Vstm5 Regulates Neuronal Morphology and Migration in the Central Nervous System. <i>Journal of Neuroscience</i> , 2016, 36, 10181-10197.	3.6	13
57	Extracellular proton alters the divalent cation binding affinity in a cyclic nucleotide-gated channel pore. <i>FEBS Letters</i> , 1998, 440, 199-202.	2.8	12
58	Electrophysiological Characteristics of Rat Gustatory Cyclic Nucleotide-Gated Channel Expressed in <i>Xenopus</i> Oocytes. <i>Journal of Neurophysiology</i> , 2001, 85, 2335-2349.	1.8	12
59	Depletion of the cereblon gene activates the unfolded protein response and protects cells from ER stress-induced cell death. <i>Biochemical and Biophysical Research Communications</i> , 2015, 458, 34-39.	2.1	12
60	Urinary Bladder-Relaxant Effect of Kurarinone Depending on Potentiation of Large-Conductance Ca <sup>2+</sup> -Activated K <sup>+</sup> Channels. <i>Molecular Pharmacology</i> , 2016, 90, 140-150.	2.3	12
61	Localization of a Site of Action for Benzofuroindole-Induced Potentiation of BK <sub>Ca</sub> Channels. <i>Molecular Pharmacology</i> , 2012, 82, 143-155.	2.3	11
62	Alteration of the Transcriptional Profile of Human Embryonic Kidney Cells by Transient Overexpression of Mouse TRPM7 Channels. <i>Cellular Physiology and Biochemistry</i> , 2011, 27, 313-326.	1.6	10
63	Impairment of proprioceptive movement and mechanical nociception in <i>Drosophila melanogaster</i> larvae lacking Ppk30, a <i>Drosophila</i> member of the Degenerin/Epithelial Sodium Channel family. <i>Genes, Brain and Behavior</i> , 2019, 18, e12545.	2.2	10
64	Neurite growth of trigeminal ganglion neurons in vitro with near-infrared light irradiation. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2020, 210, 111959.	3.8	10
65	Effect of the Novel BKCa Channel Opener LDD175 on the Modulation of Corporal Smooth Muscle Tone. <i>Journal of Sexual Medicine</i> , 2015, 12, 29-38.	0.6	9
66	Identification of the cofilin-binding sites in the large cytoplasmic domain of Na,K-ATPase. <i>Biochimie</i> , 2002, 84, 1021-1029.	2.6	8
67	SPIN90 Modulates Long-Term Depression and Behavioral Flexibility in the Hippocampus. <i>Frontiers in Molecular Neuroscience</i> , 2017, 10, 295.	2.9	8
68	BK channel blocker paxilline attenuates thalidomide-caused synaptic and cognitive dysfunctions in mice. <i>Scientific Reports</i> , 2018, 8, 17653.	3.3	8
69	Cereblon contributes to cardiac dysfunction by degrading Cav1.2. <i>European Heart Journal</i> , 2022, 43, 1973-1989.	2.2	8
70	Modulation of the Conductance-Voltage Relationship of the BKCa Channel by Shortening the Cytosolic Loop Connecting Two RCK Domains. <i>Biophysical Journal</i> , 2009, 97, 730-737.	0.5	7
71	Characterization of protoberberine analogs employed as novel human P2X7 receptor antagonists. <i>Toxicology and Applied Pharmacology</i> , 2011, 252, 192-200.	2.8	7
72	Ablation of CRBN induces loss of type I collagen and SCH in mouse skin by fibroblast senescence via the p38 MAPK pathway. <i>Aging</i> , 2021, 13, 6406-6419.	3.1	7

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73	Functional effects of cytoskeletal components on the lateral movement of individual BKCa channels expressed in live COS-7 cell membrane. <i>FEBS Letters</i> , 2011, 585, 2323-2330.	2.8	6
74	Development of cell-based assay system that utilizes a hyperactive channel mutant for high-throughput screening of BKCa channel modulators. <i>Journal of Biotechnology</i> , 2013, 167, 41-46.	3.8	6
75	Effects of palmitoylation on the diffusional movement of BK <sub>Ca</sub> channels in live cells. <i>FEBS Letters</i> , 2014, 588, 713-719.	2.8	6
76	Direct Activation of the Large-Conductance Calcium-Activated Potassium Channel by Flavonoids Isolated from <i>Sophora flavescens</i> . <i>Biological and Pharmaceutical Bulletin</i> , 2018, 41, 1295-1298.	1.4	6
77	Cereblon: promise and challenges for combating human diseases. <i>Pflugers Archiv European Journal of Physiology</i> , 2021, 473, 1695-1711.	2.8	6
78	Cereblon Regulates the Proteotoxicity of Tau by Tuning the Chaperone Activity of DNAJA1. <i>Journal of Neuroscience</i> , 2021, 41, 5138-5156.	3.6	5
79	Desipramine Inhibits Histamine H1 Receptor-Induced Ca <sup>2+</sup> Signaling in Rat Hypothalamic Cells. <i>PLoS ONE</i> , 2012, 7, e36185.	2.5	5
80	Establishment of an assay for P2X7 receptor-mediated cell death. <i>Molecules and Cells</i> , 2006, 22, 198-202.	2.6	5
81	Glutathione potentiates cloned rat brain large conductance Ca <sup>2+</sup> -activated K <sup>+</sup> channels (rSlo). <i>Neuroscience Letters</i> , 2002, 318, 9-12.	2.1	4
82	Impairment of a parabolic bursting rhythm by the ectopic expression of a small conductance Ca <sup>2+</sup> -activated K <sup>+</sup> channel in Aplysia neuron R15. <i>Neuroscience Letters</i> , 2003, 349, 53-57.	2.1	3
83	Site-specific multipoint fluorescence measurement system with end-capped optical fibers. <i>Applied Optics</i> , 2011, 50, 3529.	2.1	3
84	Synthesis and BK channel-opening activity of 2-amino-1,3-thiazole derivatives. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2021, 43, 128083.	2.2	3
85	Susceptibility of pentylentetrazole-induced seizures in mice with Cereblon gene knockout. <i>BMB Reports</i> , 2020, 53, 484-489.	2.4	3
86	Introduction to the Korean Biophysical Society (KBPS). <i>Biophysical Reviews</i> , 2019, 11, 267-268.	3.2	2
87	Identification and Characterization of a Novel Large-Conductance Calcium-Activated Potassium Channel Activator, CTIBD, and Its Relaxation Effect on Urinary Bladder Smooth Muscle. <i>Molecular Pharmacology</i> , 2021, 99, 114-124.	2.3	2
88	Regulation of AMPK Activity by CRBN Is Independent of the Thalidomide-CRL4CRBN Protein Degradation Axis. <i>Pharmaceuticals</i> , 2021, 14, 512.	3.8	2
89	Novel Thioxothiazolo[3,4- <i>a</i> ]quinazolin-5(4 <i>H</i> )-one Derivatives as BK <sub>Ca</sub> Channel Activators for Urinary Incontinence. <i>ACS Medicinal Chemistry Letters</i> , 2022, 13, 1052-1061.	2.8	2
90	Binding symmetry of extracellular divalent cations to conduction pore studied using tandem dimers of a CNG channel. <i>Biochemical and Biophysical Research Communications</i> , 2002, 298, 478-485.	2.1	1

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91	Differential effects of N-linked glycosylation of Vstm5 at multiple sites on surface expression and filopodia formation. PLoS ONE, 2017, 12, e0181257.	2.5	1
92	Characterization of a novel gene expressed in neuromuscular tissues and centrosomes in <i>Caenorhabditis elegans</i> . Cell Biochemistry and Function, 2001, 19, 79-88.	2.9	0
93	Site specific multi-point fluorescence measurement system for fluorescence correlation spectroscopy. , 2010, , .		0
94	Molecular mechanism of cereblon-dependent down regulation of AMP-activated protein kinase. FASEB Journal, 2019, 33, 487.24.	0.5	0
95	Discovery and characterization of a potent activator of the BKCa channel that relieves overactive bladder syndrome in rats. European Journal of Pharmacology, 2022, 927, 175055.	3.5	0